

APPLICATION
FOR
UNITED STATES OF AMERICA

SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

Be it known that I,

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have invented certain improvements in

“BOX-LIKE ENCLOSURE FOR SPATIALLY ORIENTABLE
SPEAKERS”

of which the following description in connection with the accompanying drawings is a specification, like reference characters on the drawings indicating like parts in the several figures.

BACKGROUND OF THE INVENTION

The present invention relates to a box-like enclosure for spatially orientable speakers.

It is known that speaker cases or boxes are currently commercially available which have various kinds of element for engaging the ends of anchoring cables in order to allow the spatial placement of the speakers, particularly in showrooms or outdoor.

These kinds of element are usually constituted by one or more elements, which are rigidly connected to each other and then associated with one end of the suspension cables. They further provide for the addition, to the suspension box, of at least one element which is fixed by means of screws to the outer surface of said box.

This assembly often requires additional machining in order to form the seats in the box which accommodate said elements.

In particular, it has been found that the engagement elements that are currently used constitute a problem, since often damages at the frame region surrounding the engagement element occurs, owing to the stresses to which such region is subjected during suspension generated by the tension in the anchoring cables.

Moreover, the machining and the consequent additional assembly of the elements increase the times for manufacturing the speaker, thereby affecting the final cost of the product.

SUMMARY OF THE INVENTION

The aim of the present invention is to obviate the cited drawbacks by providing a box-like enclosure for spatially orientable speakers which solves the above noted problems, eliminating the need for additional mechanical elements and additional assembly operations.

Within this aim, an object of the present invention is to provide a structure which is simple, relatively easy to provide in practice, safe in use, effective in operation and relatively low in cost.

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BRIEF DESCRIPTION OF THE DRAWINGS

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Figure 2 is a front view thereof;

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enclosure of Fig. 1;

respectively, of a second embodiment of said enclosure;

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view, respectively, of a fourth embodiment of said enclosure;

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enclosure, in which said engagement elements are made of a different

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Figures 23 and 24 are a perspective view and an exploded front view, respectively, of a seventh embodiment of said enclosure.

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The engagement elements 7, together with the hollows 20, form lugs which are crossed by holes 22 which are engaged by the hooks 11.

A third embodiment of the box-like enclosure 1 according to the invention is shown in Figures 11 to 13. In this embodiment, two substantially parallel slots 33 are formed by molding at the upper face 30 and at the lower face 31 and run along the entire length of said faces 30 and 31; at the central region of the lateral faces 32, another slot 33 is formed which runs along the entire length of each one of the faces 32. Proximate to the central region of each one of the slots 33 there is a bridge 34 which connects the walls 33a of the slot 33 so as to form respective engagement elements 7 which are engaged by the hooks 11 in order to allow the optimum spatial arrangement of the box-like enclosure 1.

A fourth embodiment of the box-like enclosure 1 is illustrated in Figures 14 to 16. This embodiment differs from the one shown in Figures 1 to 7 in that at the central region of the rear sharp edges 6 the engagement elements 7 are formed, during molding, by indentations 40 whose walls are joined by rods 41.

A fifth embodiment of the invention is illustrated, in Figures 17 to 19. In this embodiment there is, at the rear sharp edge 6, a recess 50 from which there protrudes, proximate to the central region, the engagement element 7, which forms a lug provided with a hole 51 meant to be engaged by the hooks 11.

A sixth embodiment of the invention is illustrated in Figures 20 to 22. In this embodiment, the engagement elements 7 consist of lugs 60, preferably made of metallic material, which are crossed centrally by a hole 10 which is meant to engage the hooks 11; a lamina 61 provided with holes 62 is rigidly coupled to each one of the lugs 60, along the peripheral portion 60a; during the molding of the box-like enclosure 1, said lamina is intimately integrated in the sharp edges.

A seventh embodiment is shown in Figures 23 and 24. In this

embodiment, the box-like enclosure 1 comprises a front cover 70 and a rear cover 71 which, thanks to connecting means constituted by screws 72, are coupled along front complementary peripheral edges 73, thus determining the prism-like shape of the box-like enclosure 1. The peripheral edges 73
5 are provided with perimetric seats which are constituted by slots 74 which accommodate the engagement elements 7. The engagement elements 7 consist of a frame protruding with the rounded portions 75 thereof, from recesses 76 formed on the converging regions of the adjacent lateral faces 77. Said rounded portions are meant to engage the hooks 11.

10 In practical operation, the engagement elements 7 are engaged by the anchoring cables 13 so as to allow the optimum spatial orientation of the box-like enclosure 1 for speakers.

An advantage of the present invention is that the engagement elements are formed during molding according to the most disparate requirements, so
15 as to meet the various possibilities of positioning and suspension in space.

It has thus been shown that the invention achieves the intended aim and objects.

The invention thus conceived is susceptible of numerous modifications and variations, all of which are within the scope of the appended claims.

20 All the details may further be replaced with other technically equivalent elements.

In practice, the materials used, as well as the shapes and the dimensions, may be any according to requirements without thereby abandoning the scope of the protection of the appended claims.

25 The disclosures in Italian Utility Model Application No. BO2000U000073 from which this application claims priority are incorporated herein by reference.